

**LAND APPLICATION SITE**

**JOHN H. BENTLEY**

**DWJHB 1 - 3**

**DINWIDDIE COUNTY**

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 9-28-20 between John H. Bentley referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Dinwiddie Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>42-11</u>			
<u>42-28</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.


In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>John Hardaway Bentley</u>	Mailing Address <u>13604 Scotts Rd.</u>	Landowner Signature 
By: <u>John H. Bentley</u>	<u>DeW. H, VA 23840</u>	
Title: _____	Phone No. <u>804-712-7703</u>	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee - Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: John H. Bentley

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

X John H. Bentley  
Landowner's Signature

9-28-20  
Date

X John H. Bentley  
Operator's Signature

13604 Scotts Rd.  
Dewitt, VA 23840  
804-712-7703

mailing address & phone

9-28-20  
Date

## Landowner Coordination Form

Permittee: Recyc Systems, Inc.

County or City: Dinwiddie County

Signature not required on this page

[illegible]

# FARM DATA SHEET

<b>SITE NAME:</b>	John H. Bentley	<b>COUNTY:</b>	Dinwiddie
<b>OWNER:</b>	John Hardaway Bentley	<b>OPERATOR:</b>	John Hardaway Bentley
<b>OWNER'S ADDRESS:</b>	13604 Scotts Road Dewitt, VA 23840	<b>OPERATOR'S ADDRESS:</b>	13604 Scotts Road Dewitt, VA 23840
<b>OWNER'S TELEPHONE:</b>	804-469-3254	<b>OPERATOR'S TELEPHONE:</b>	804-469-3254
<b>GENERAL FARM TYPE:</b>	Row Crop	<b>CELL PHONE:</b>	804-712-7703
<b># CATTLE:</b>	None	<b>EMAIL:</b>	-
<b>LAGOON or SLURRY:</b>	None	<b>LATITUDE:</b>	F 1-2 37.101 F 3 37.093
<b>TOPO QUAD:</b>	Dewitt	<b>LONGITUDE:</b>	F 1-2 -77.702 F 3 -77.680
<b>COMMENTS:</b>	<b>METHOD OF DETERMINATION:</b> Online Maps		
The new John H. Bentley book is the old Charles A. Bentley book.			
BB 9-28-20			

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
DWJHB 1	39.3	-	-	-	-	CU 20	42-11	T 1678 F 1, 2, 3, 5
DWJHB 2	41.8	-	-	-	-	CU 20	42-11	T 1678 F 4, None
DWJHB 3	3.5	-	-	-	-	CU 19	42-28	T 2382 F 1
TOTAL ACRES IN SITE	84.6							

9-28-20

THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet**  
**(Fall, 2020-Winter, 2022)**  
**John H. Bentley**  
**Planner: John Doe**

Tract: 1678

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1, 2, 3, 5/DWJHB 1(N)	39/39	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
		2021	...	...									
4, None/DWJHB 2(N)	42/42	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
		2021	...	...									

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2382

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/DWJHB 3(N)	4/4	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:



**Soil Test Summary**

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1678	DWJHB 1	39	[No Test]						
1678	DWJHB 2	42	[No Test]						
2382	DWJHB 3	4	[No Test]						

### **Field Productivities for Major Crops**

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1678	1678/1, 2, 3	DWJHB 1	39	Herndon	IVa	II	III	III	
	1678/4, None	DWJHB 2	42	Georgeville	IVa	II	III	II	
2382	2382/1	DWJHB 3	4	Herndon	IVa	II	III	III	

### **Yield Range**

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

## Farm Summary Report

**Plan:**            **New Plan**            **Fall, 2020 - Winter, 2022**

**Farm Name:**    **John H. Bentley**

Location:        Dinwiddie

Specialist:      John Doe

N-based Acres: 84.6

P-based Acres: 0.0

**Tract Name:**    **1678**

FSA Number:    1678

Location:                    Dinwiddie

**Field Name:**        **DWJHB 1**

Total Acres:    39.30    Usable Acres:    39.30

FSA Number:    1, 2, 3, 5

Tract:            1678

Location:                    Dinwiddie

Slope Class:    B            Hydrologic Group:    B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

### *P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

### **Soil Test Results:**

DATE	PH	P	K	Lab
[NO TEST]				

### **Soils:**

PERCENT	SYMBOL	SOIL SERIES
48	8B	Georgeville
16	10B	Herndon
36	10C	Herndon

**Field Warnings:**

**Field Name:** DWJHB 2

Total Acres: 41.80 Usable Acres: 41.80

FSA Number: 4, None

Tract: 1678

Location: Dinwiddie

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
18	10C	Herndon
50	8B	Georgeville
32	8C	Georgeville

**Field Warnings:**

**Tract Name:** 2382

FSA Number: 2382

Location: Dinwiddie

**Field Name:** DWJHB 3

Total Acres: 3.50 Usable Acres: 3.50

FSA Number: 1

Tract: 2382

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K	Lab
	[NO TEST]			

**Soils:**

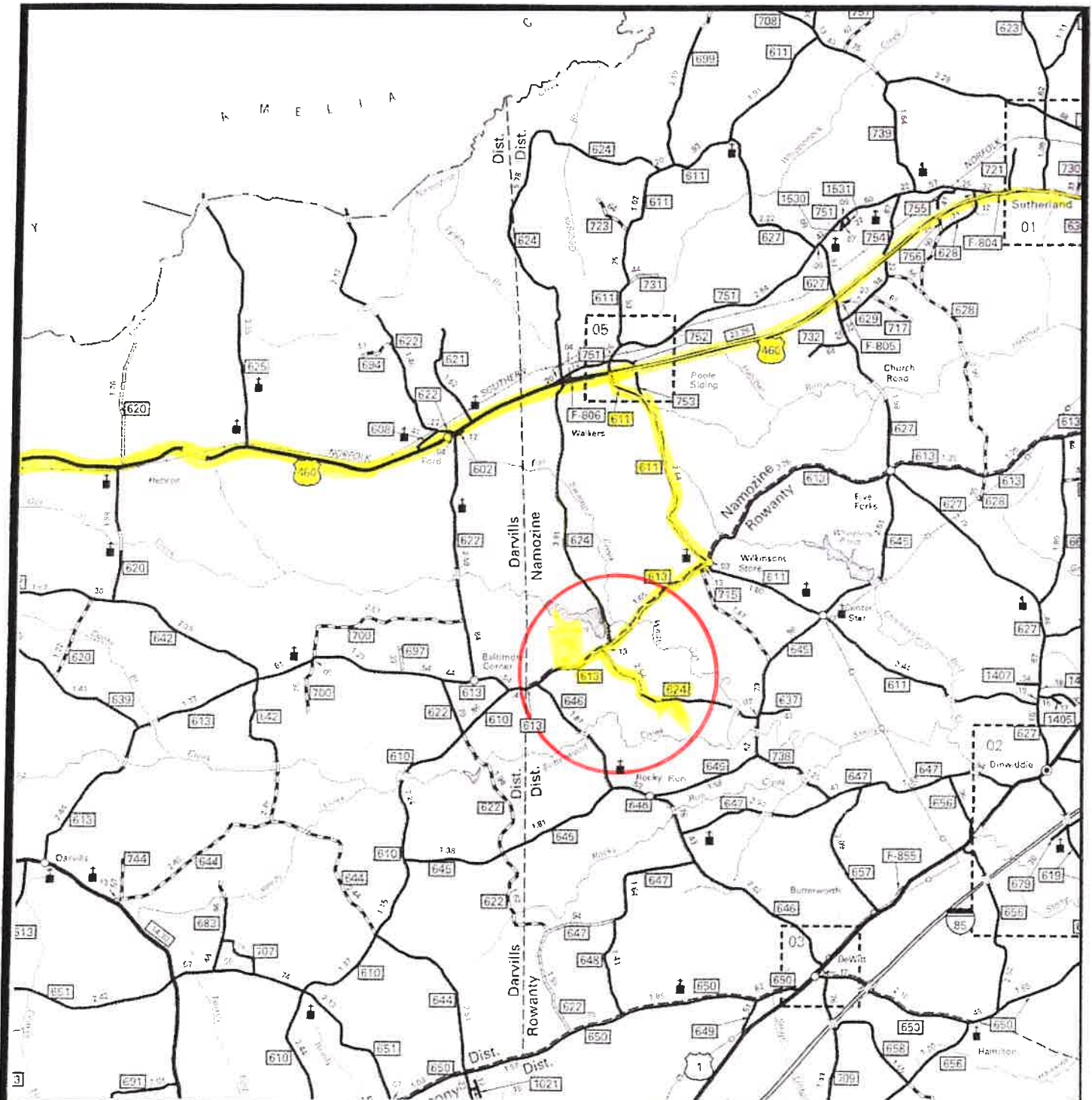
PERCENT	SYMBOL	SOIL SERIES
19	8B	Georgeville
81	10B	Herndon

**Field Warnings:**

# MAPS

# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



**Scale:** 1 inch = 2 miles

DWCAB 1-3

9-28-20

Truck Route

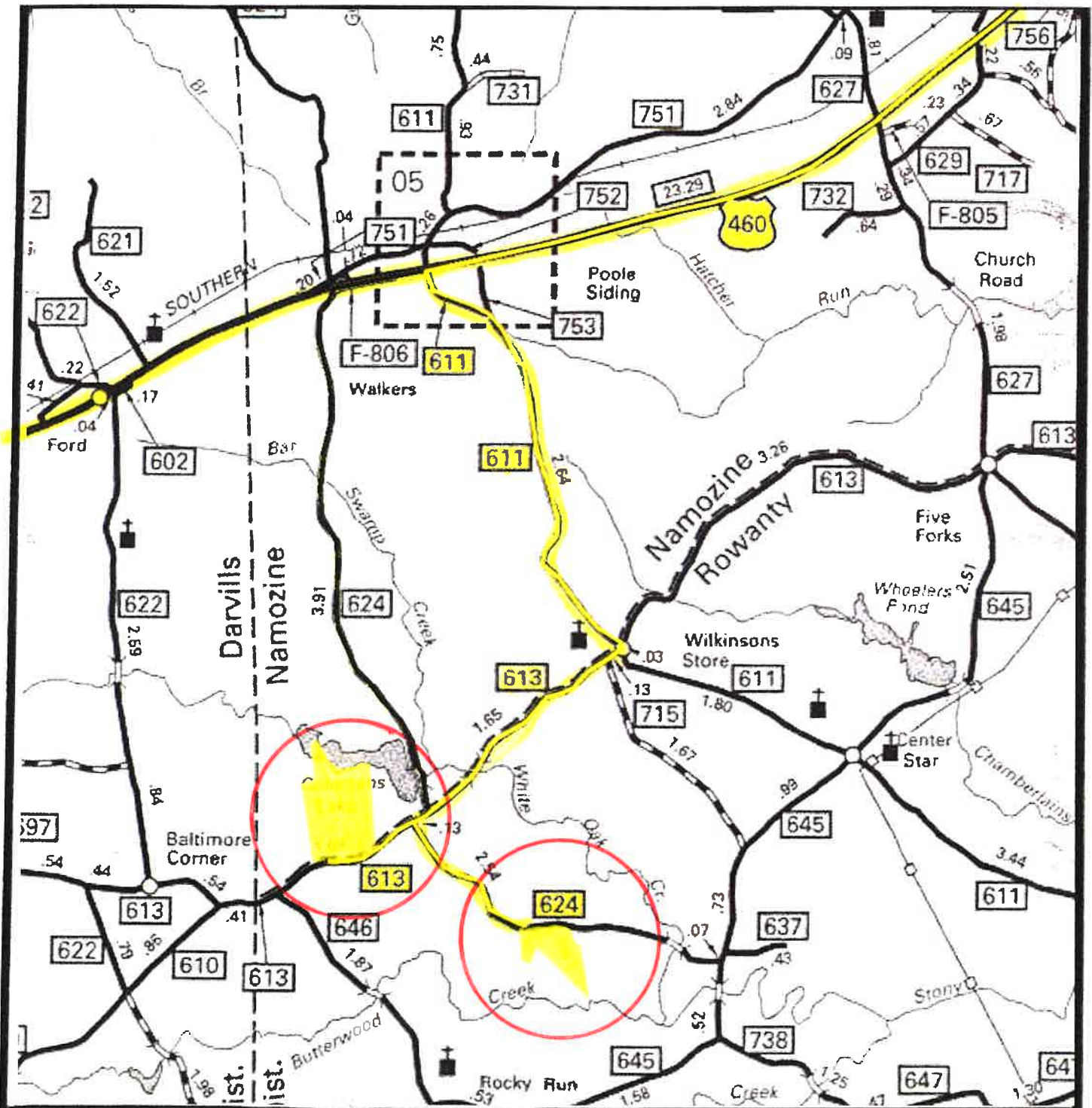
**VICINITY MAP**





# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



**Scale:** 1 inch = 1 mile

DWCAB 1-3

9-28-20

Truck Route

**VICINITY MAP**

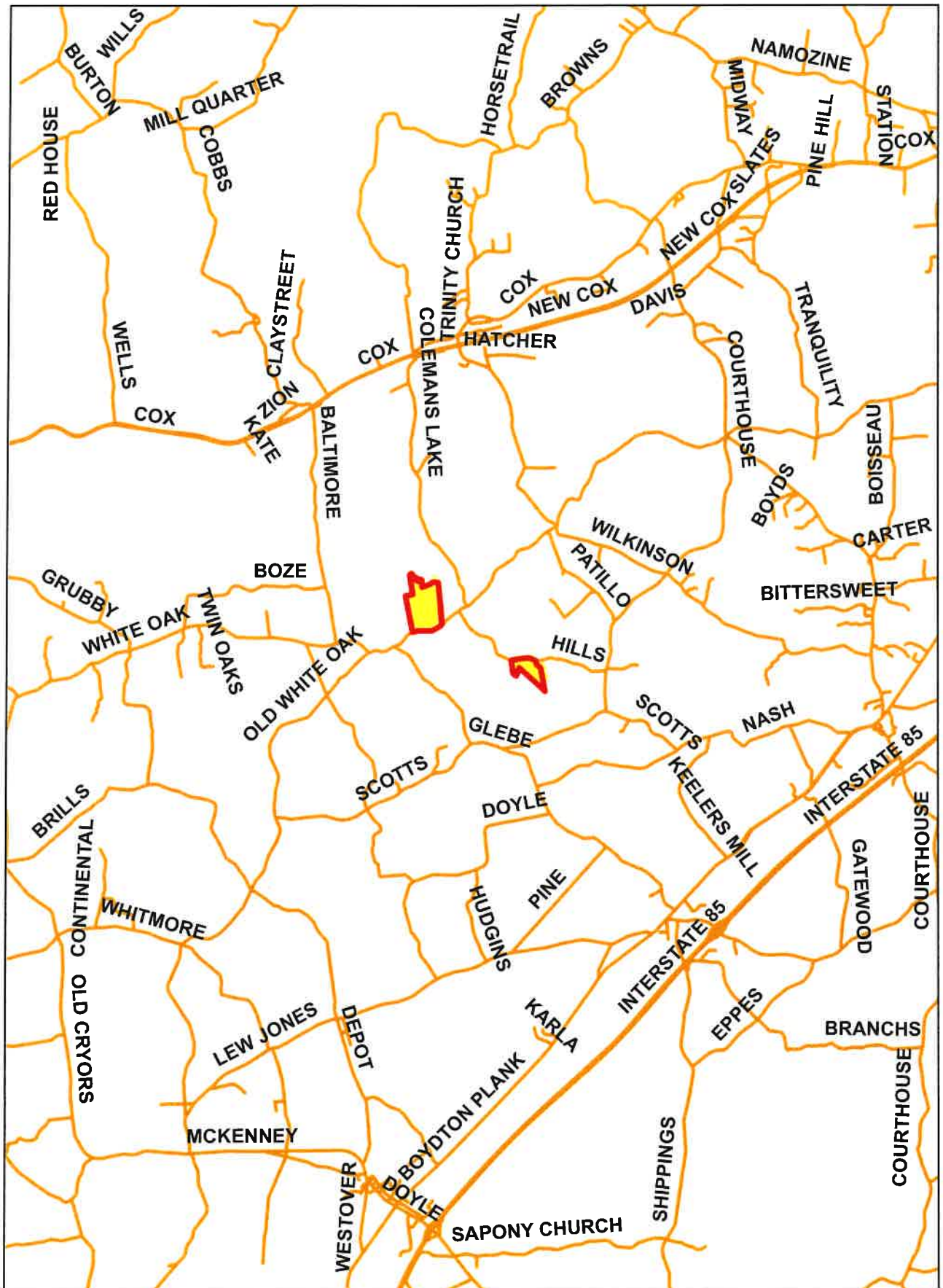






**Recyc Systems<sup>®</sup>**  
Inc.

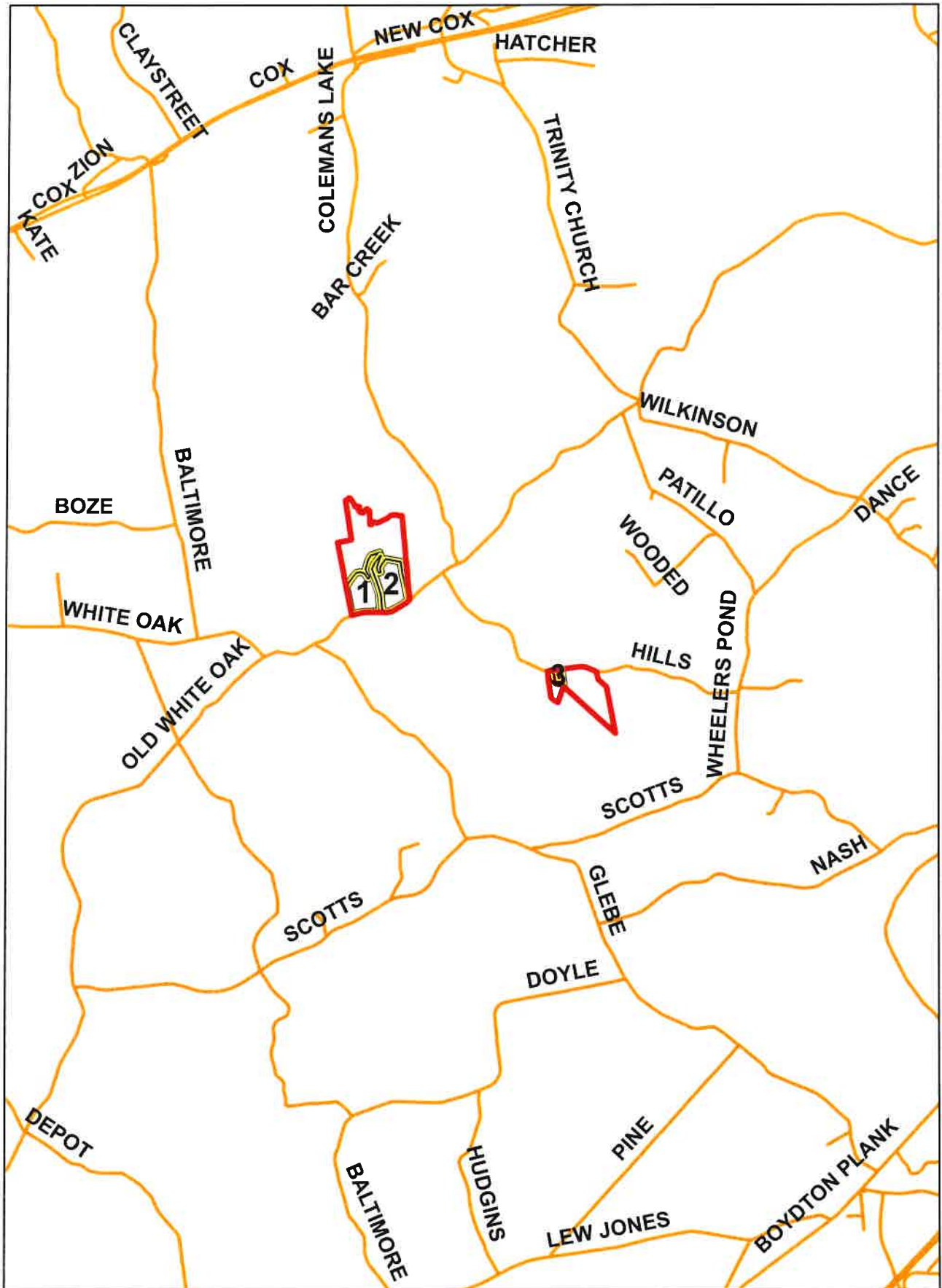
John H. Bentley DWJHB



9-28-20

Vicinity Map

1 in = 2 miles



9-28-20

Vicinity Map

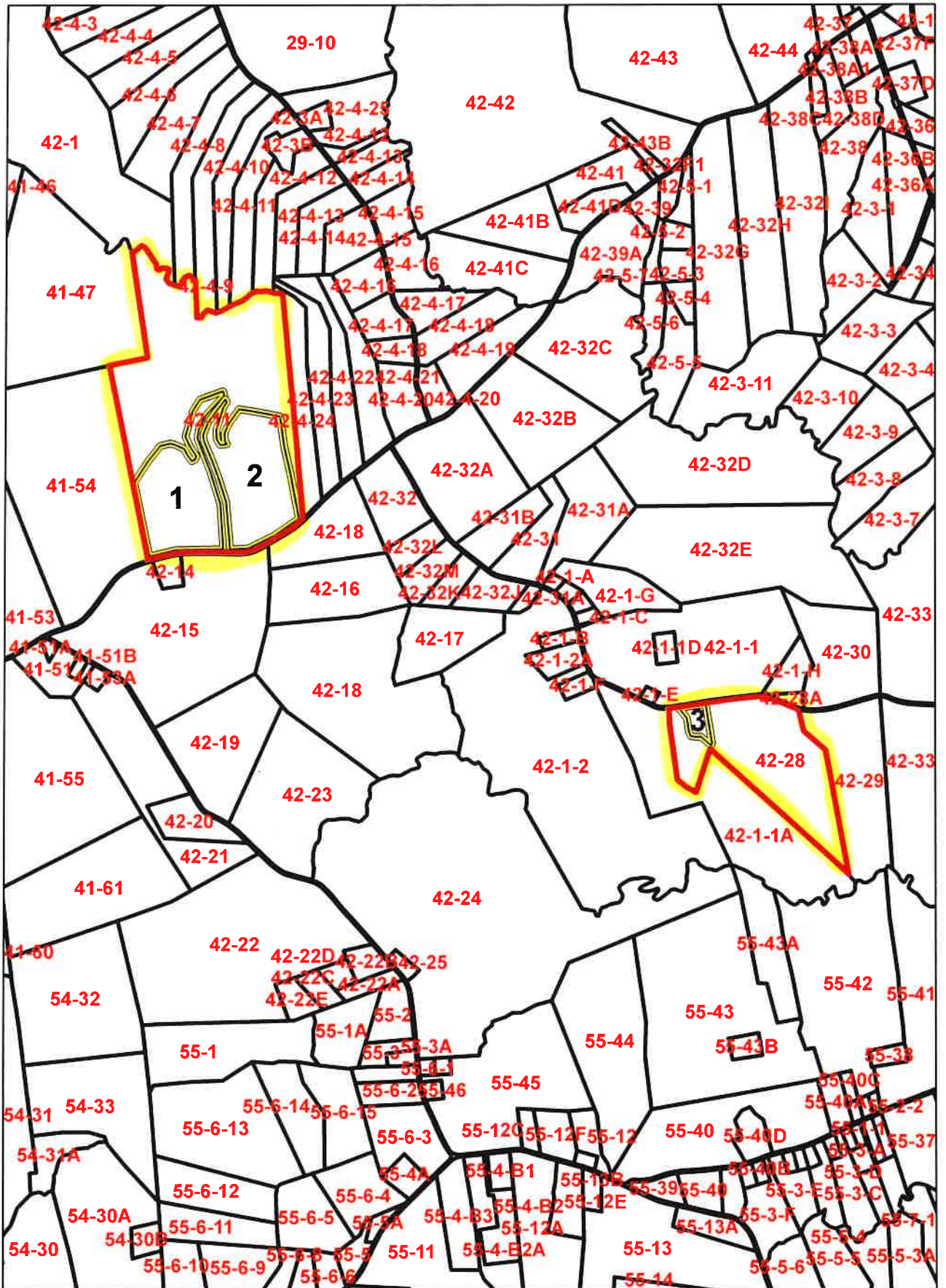
1 in = 1 miles





John H. Bentley

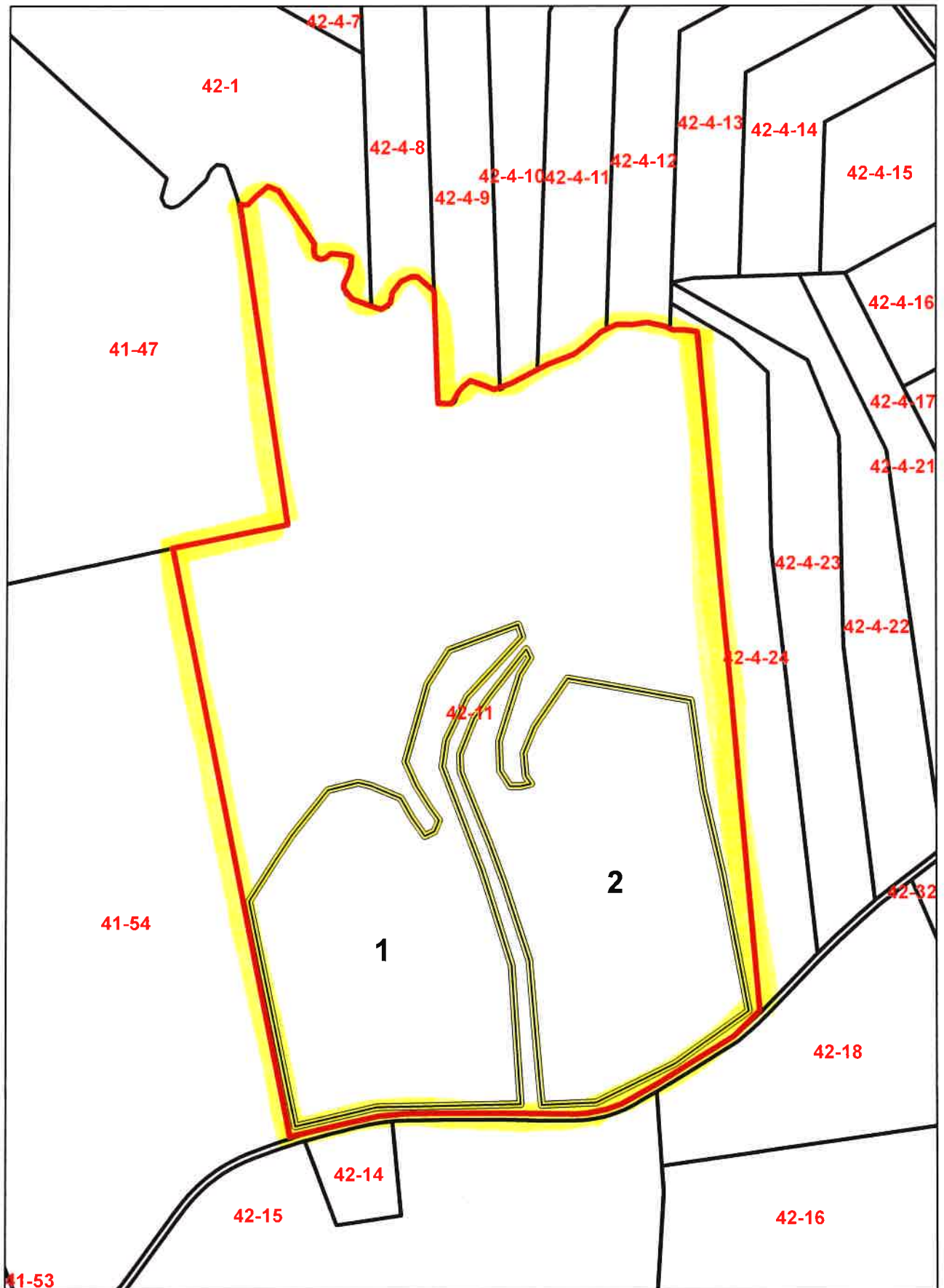
DWJHB



9-28-20

## Tax Map

1 in = 2,000 feet

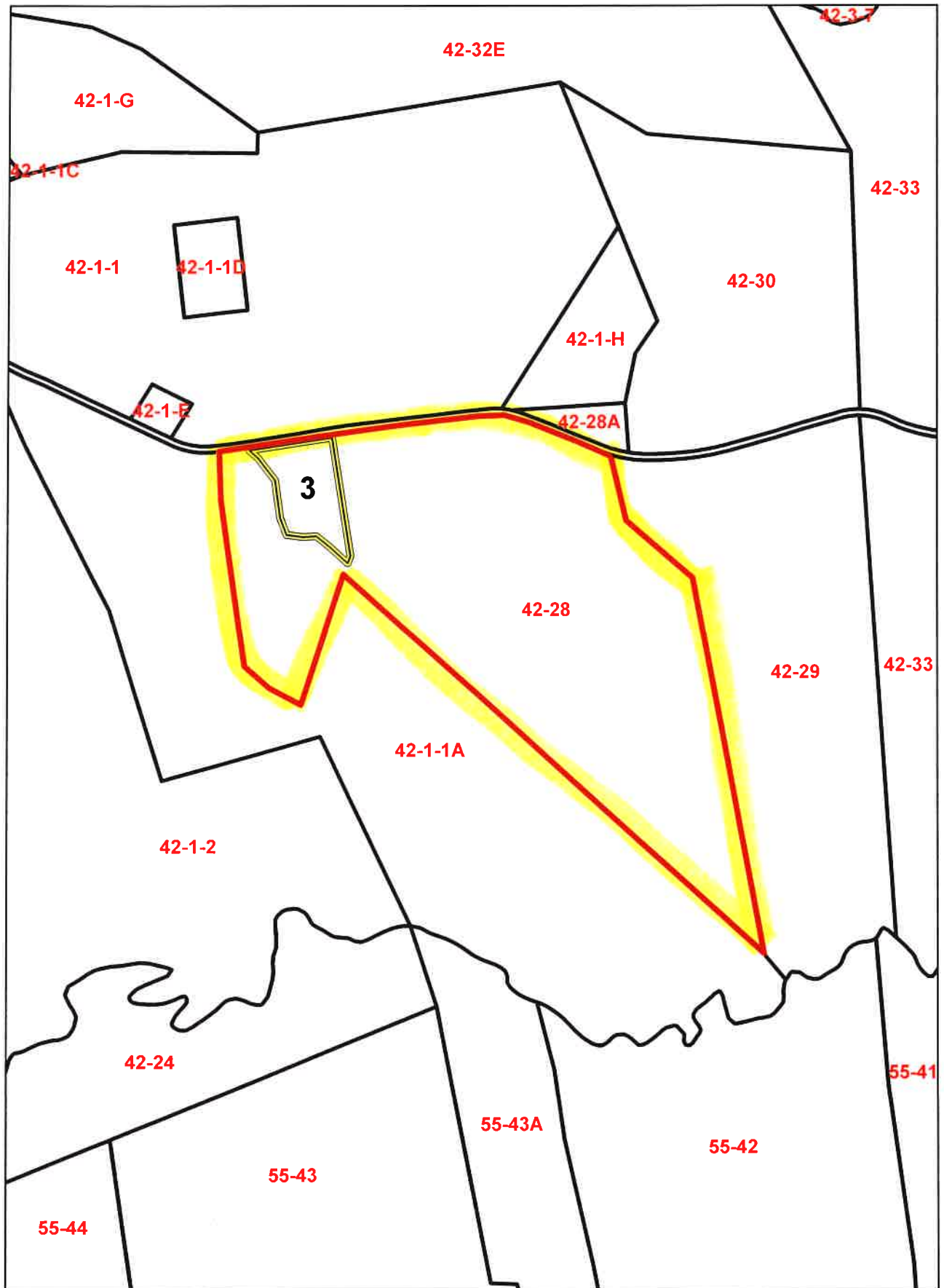


9-28-20

Tax Map

1 in = 660 feet





9-28-20

**Tax Map**

1 in = 660 feet

# ADJOINING LANDOWNERS

**John H. Bentley**

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## Dinwiddie County

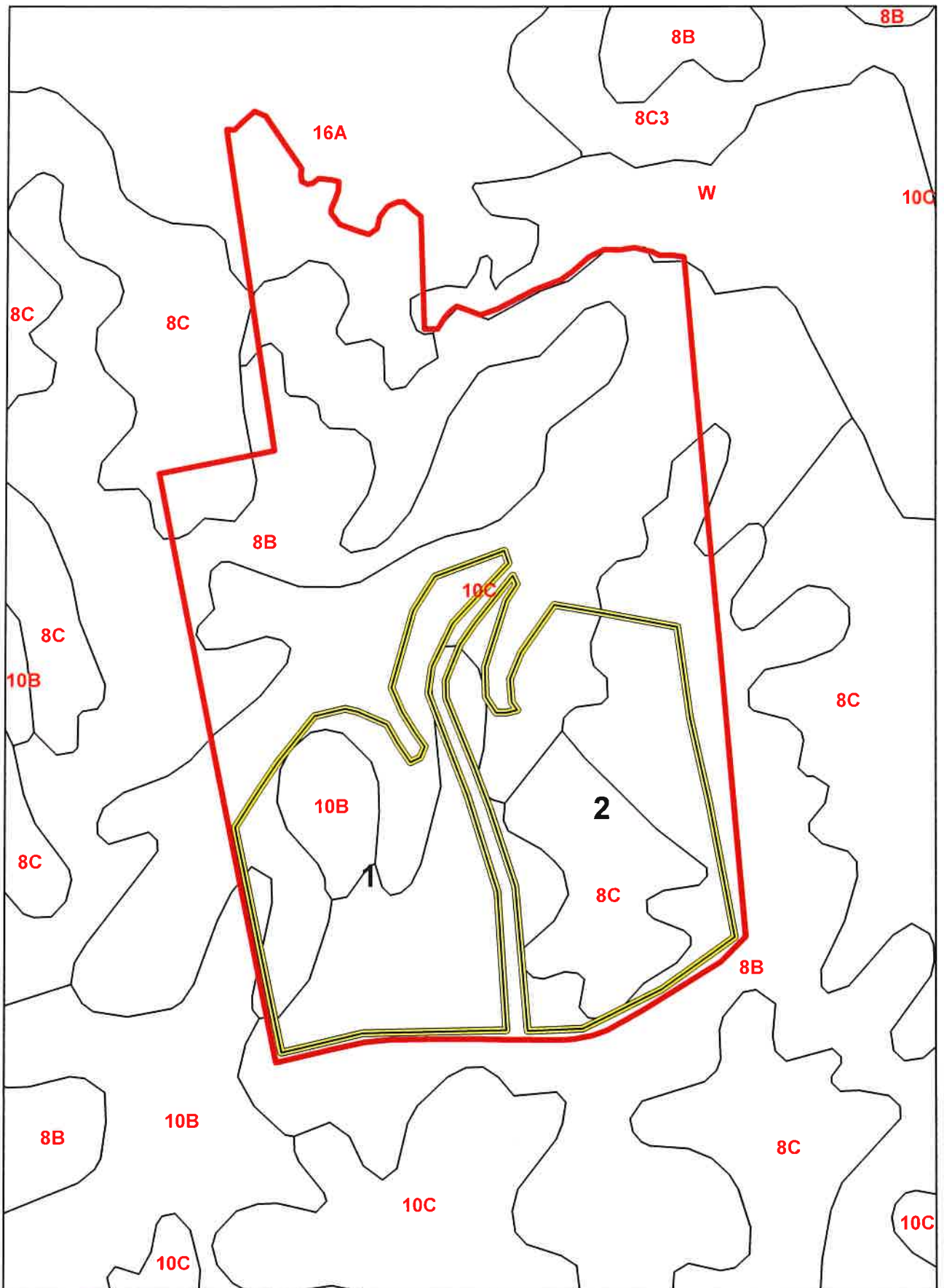
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Tax Map	Parcel #	Owner Name(s)
41	47	Sure as the Vine LLC
	54	Sure as the Vine LLC
42	1	Colemans Lake Estates Homeowners Association Inc.
	14	Ned and Marla M. Coleman
	15	Brian D. and Sarah S. Johnson
	18	Brian D. and Sarah S. Johnson
	28A	John N. Jr. and Allison R. Heath
	29	Mamie S. Burton Trustee
42-1	1	Larry E. and Jerry W. Clay
	1A	Larry E. and Jerry W. Clay
	H	James W. Clay Jr.
42-4	8	Gregory A. and Karen Golden
	9	Jeremy Scott and Rebecca Kate Hendren
	10	Micah or Tammy Eubanks
	11	Burnard K. and Robin D. Coleman
	12	Thornton L. Carter and A. Faye Rollings
	24	David V. and Mary Alice Monto



**Recyc Systems<sup>®</sup>**  
**Inc.**

John H. Bentley   DWJHB



9-28-20  
Frequently  
Flooded

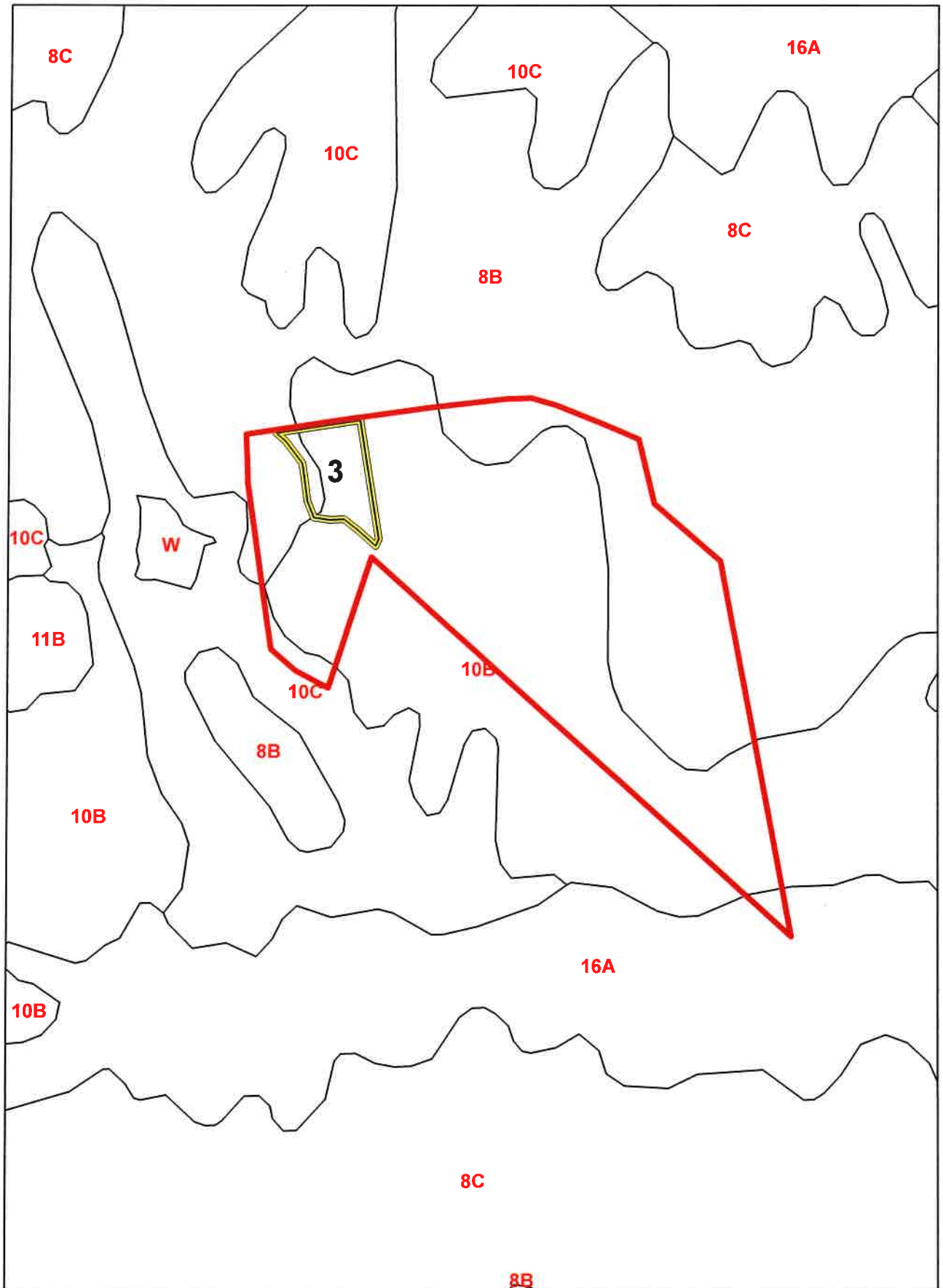
**Soil Map**

1 in = 660 feet



**Recyc Systems**  
Inc.

John H. Bentley   DWJHB



9-28-20  
Frequently  
Flooded

**Soil Map**

1 in = 660 feet





Field Id	Gross Acres
DWJHB 1	39.3
DWJHB 2	41.8
DWJHB 3	3.5
TOTAL	84.6



9-28-20

Aerial Map

1 in = 660 feet



Field Id	Gross Acres
DWJHB 1	39.3
DWJHB 2	41.8
DWJHB 3	3.5
TOTAL	84.6



9-28-20

Aerial Map

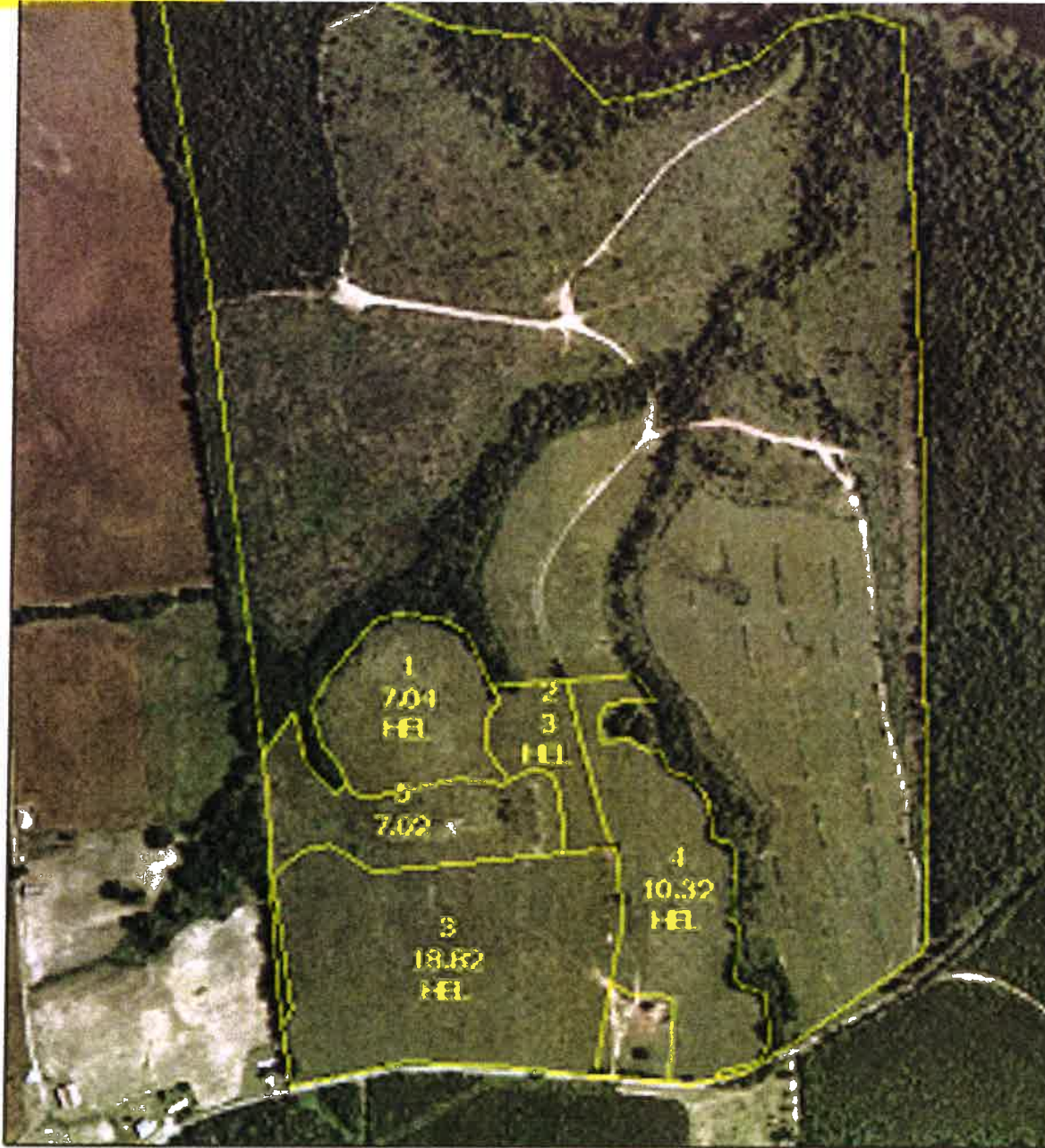
1 in = 660 feet

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





## Tract 1678



**Scale:** Not to Scale

DWCAB 1-2

9-28-20

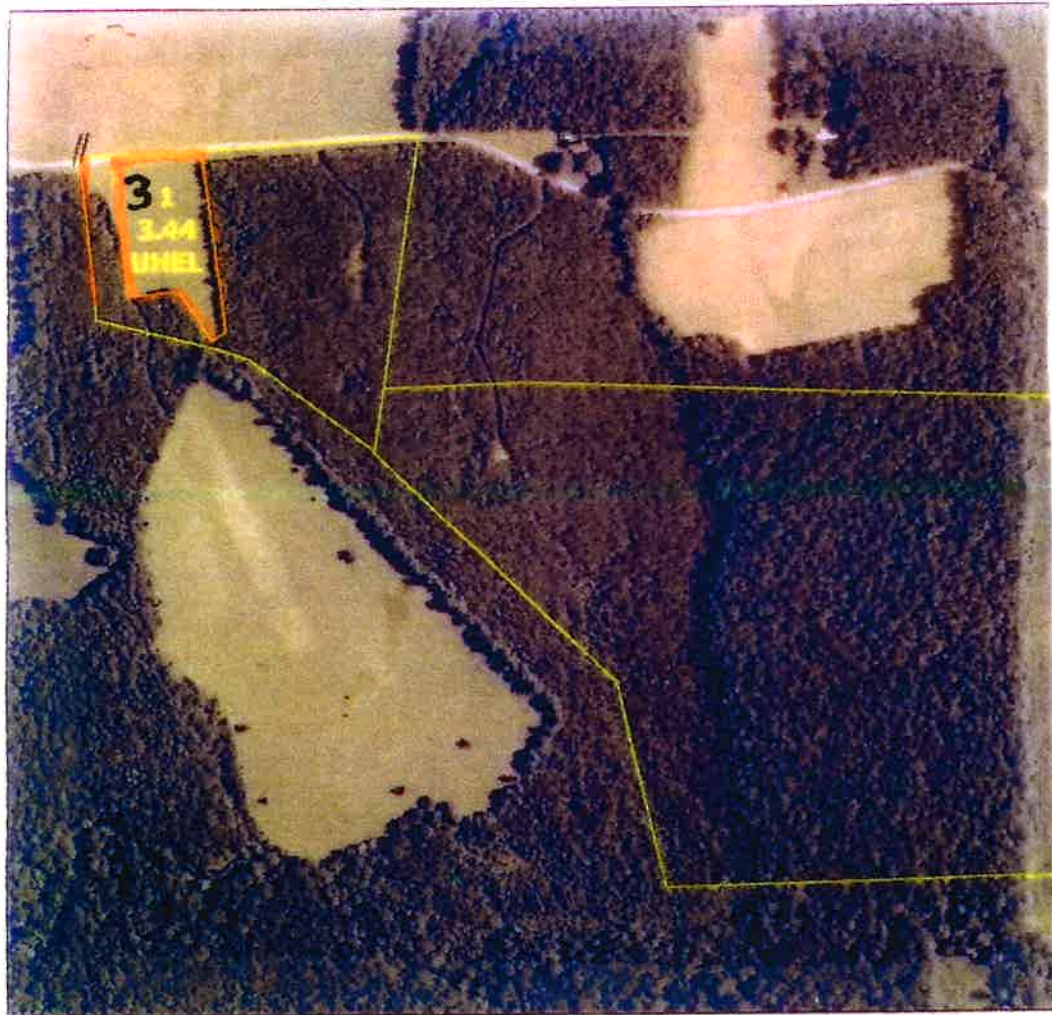
**AERIAL MAP**





# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



T2382

**Scale:** 1 inch = 660 feet









DWCAB 3

9-28-20

AERIAL MAP



# Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

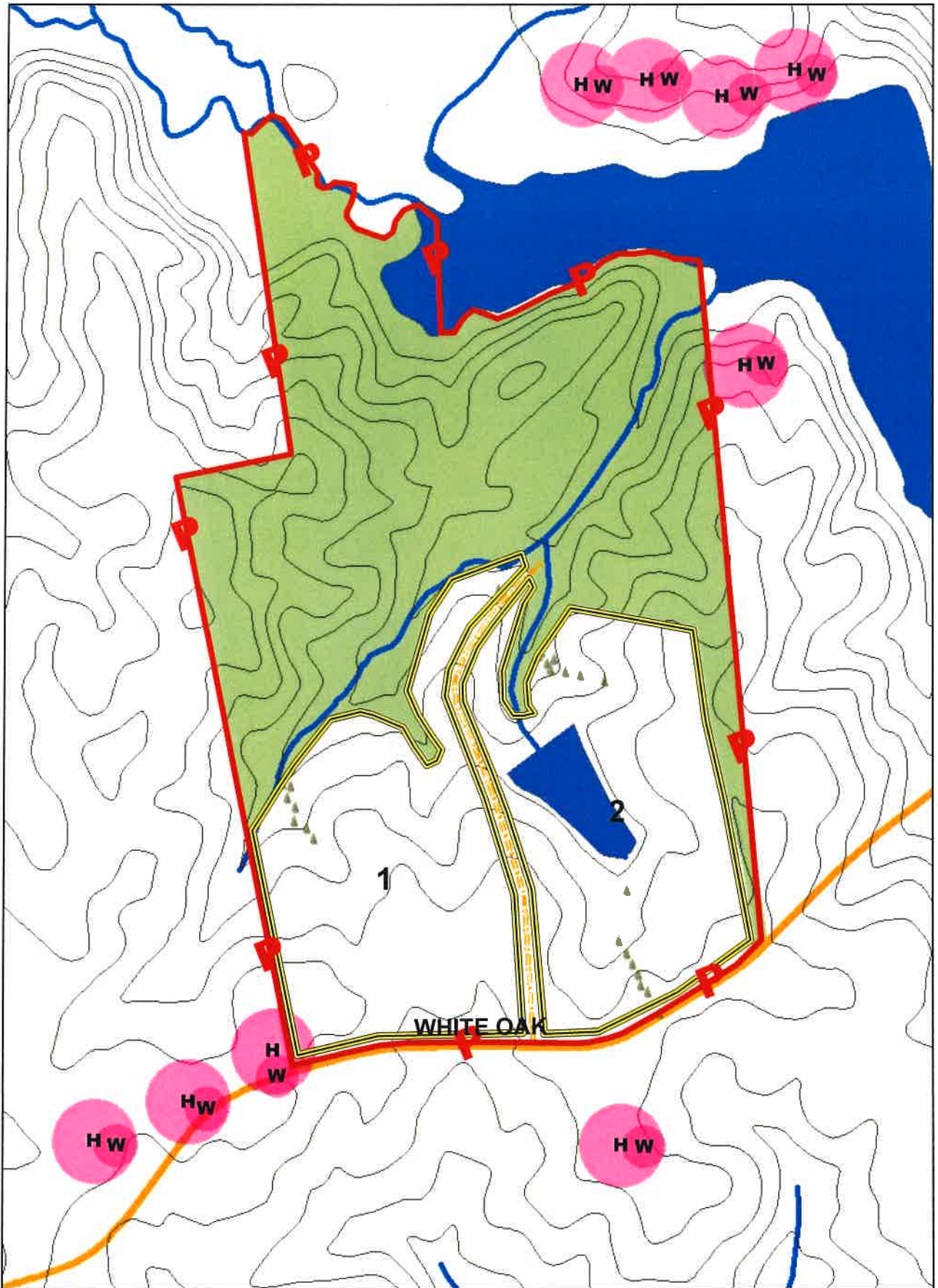
\*Buffer can be reduced or waived upon written consent from landowner.





John H. Bentley

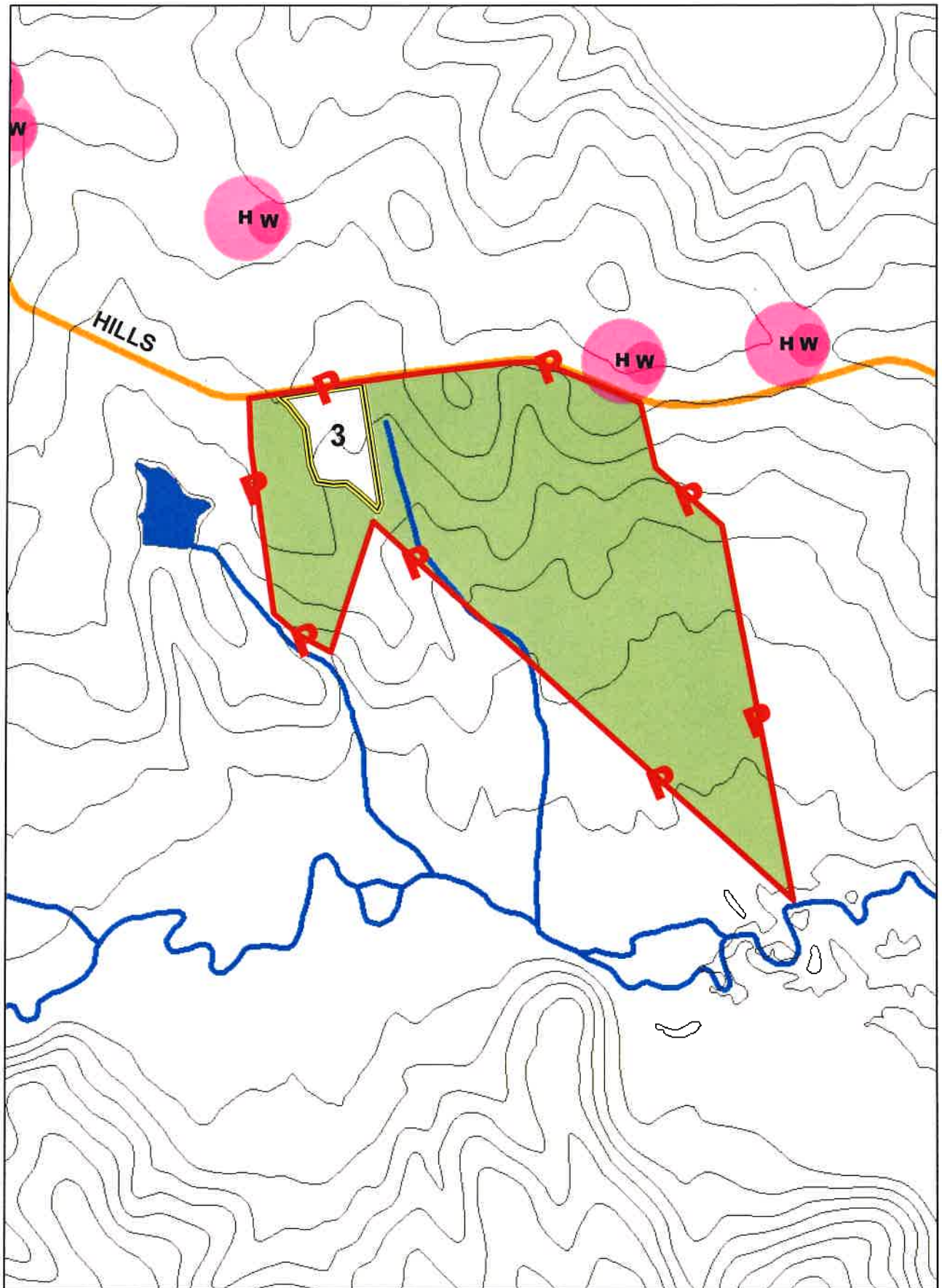
DWJHB



9-28-20

## Site Map

1 in = 660 feet

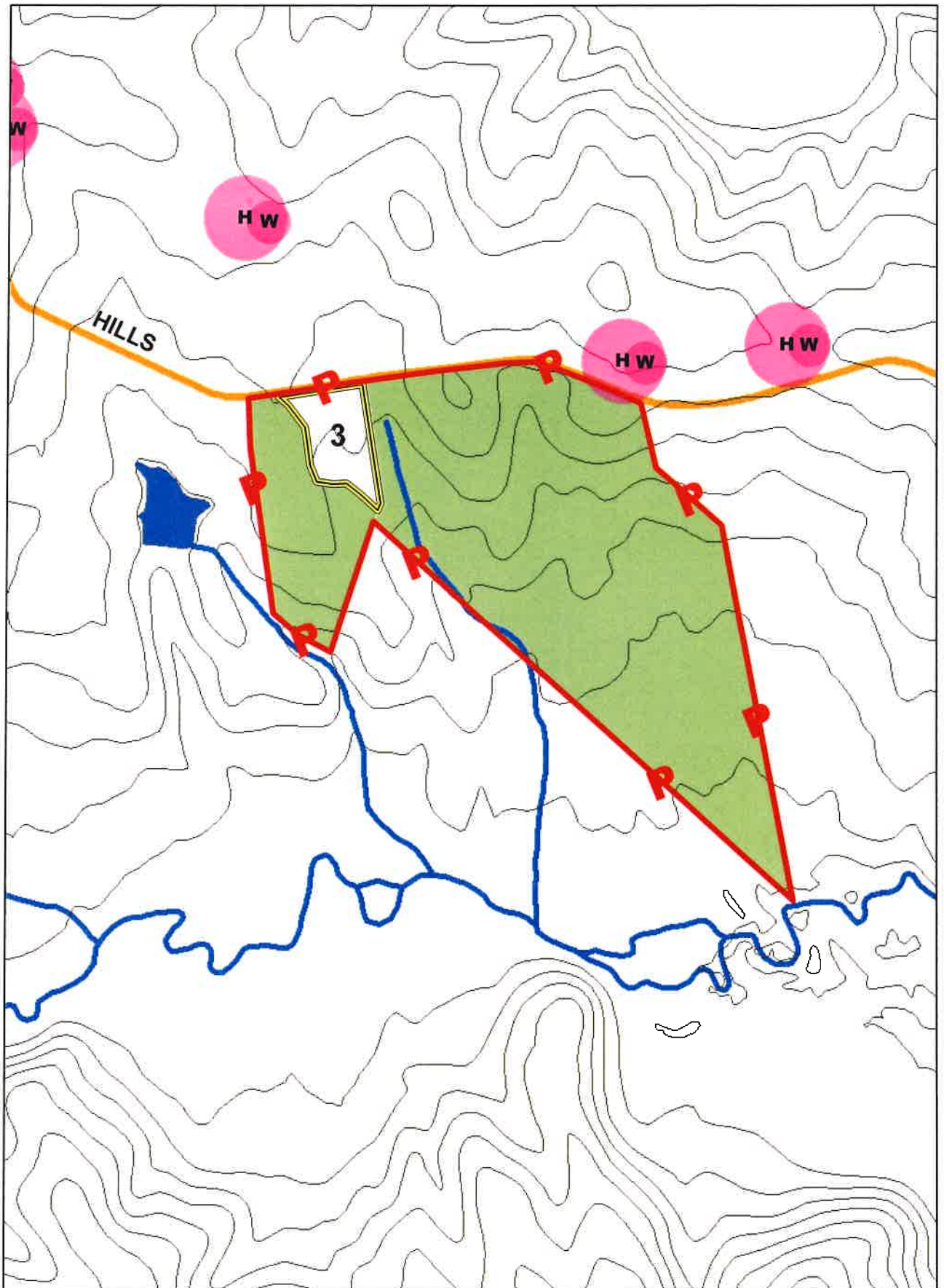


9-28-20

Site Map

1 in = 660 feet



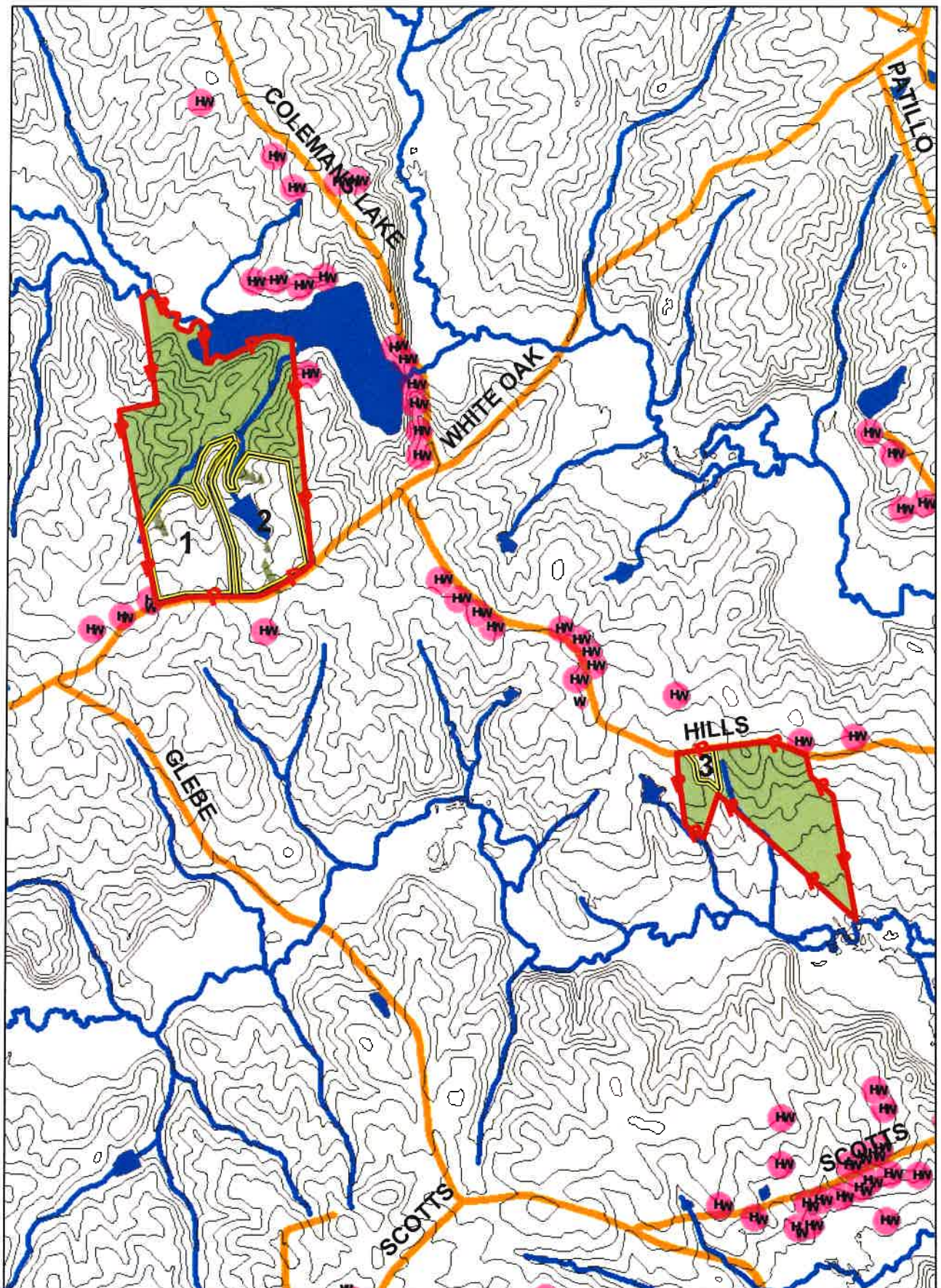


9-28-20

**Site Map**

1 in = 660 feet





9-28-20

Topographic Map

1 in = 2,000 feet